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JP9185457A2:TOUCH PANEL, AND DISPLAY DEVICE WITH INPUT FUNCTION USING THE SAME

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Country: **JP Japan**

Kind:

Inventor(s): **NAKAMURA KOZO**

Applicant(s): **SHARP CORP**
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Application Number: **JP1995000343071**

IPC Class: **G06F 3/033; G02F 1/133; G09F 9/00;**

Abstract:



Problem to be solved: To provide a touch panel with which the transmittance of light is improved, the brightness of display device is not lowered and the generation of interference fringes is reduced even at the time of inputting with a pen etc.

Solution: Glass having the thickness of 0.7mm and the refractive index of 1.5 is used as a fixed side electrode substrate 2, and an ITO having the thickness of 100nm and the refractive index of 1.9 is formed as a transparent electrode 3 on this fixed side electrode 2. A polycarbonate film having the thickness of 0.1mm and the refraction factor of 1.59 is used as a movable side electrode substrate 4, and an ITO having the thickness of 100nm and the refractive index of 1.9 is formed as the transparent electrode 3 on this movable side electrode substrate 4. The transparent electrodes 3 formed on these fixed side and movable side electrode substrates 2 and 4 are made into prescribed electrode patterns, afterwards, a dot spacer 5 is formed by the method of photolithography and a seal 6 is formed by the method of screen printing. The fixed side and movable side electrode substrates 2 and 4 are stuck together with a prescribed gap in-between, methylene iodide having the refractive index of 1.7 is injected as transparent insulating liquid 7 from an injection hole by the method of vacuum injection, and the injection hole is sealed later so that a touch panel 1 can be provided.

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